| Form PTO/SB/08 INFORMATION DISCLOSURE CITATION IN AN APPLICATION *(Use several sheets if necessary)* | Docket Number (Optional) APBI-P16-316 | Application Number 09/466,568 |
|---|---|---|
| | Applicant Crabtree et al. | |
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**U.S. PATENT DOCUMENTS**

| EXAMINER INITIAL | DOCUMENT NUMBER | | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---|---|---|---|---|---|---|---|
| | AA | 5,171,671 | 12/15/92 | Evans et al. | | | |
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**FOREIGN PATENT DOCUMENTS**

| | DOCUMENT NUMBER | | DATE | COUNTRY | CLASS | SUBCLASS | Translation YES | Translation NO |
|---|---|---|---|---|---|---|---|---|
| TMe | AB | EP 594847 | 5/4/94 | Europe | | | | |
| | AC | WO 93/25533 | 12/23/93 | PCT | | | | |
| | AD | WO 93/23550 | 11/25/93 | PCT | | | | |

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages Etc.)*

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|---|---|---|
| TMe | AE | Alberg, D.G and Schreiber, S.L. Structure-Based Design of a Cyclophilin-Calcineurin Bridging Ligand. *Science* 262, 248-250 (1993). |
| | AF | Albers, M.W. et al. FKBP, Thought to be Identical to PKCI-2, Does Not Inhibit Protein Kinase C. *BioMed. Chem. Lett.* 1, 205-210 (1991). |
| | AG | Albers, M.W. et al. An FKBP-Rapamycin Sensitive, Cyclin-Dependent Kinase Activity That Correlates with the FKBP Rapamycin-Induced G1 Arrest Point in MG-63 Cells. *Annals of N. Y. Acad. Sci.* 696, 54-62 (1993). |
| | AH | Albers, M.W. et al. Relationship of FKBP to PKCI-1. *Nature* 351, 527 (1991). |
| | AI | Albers, M.W. et al. Substrate Specificity for the Human Rotamase FKBP: A View of FK506 and Rapamycin as Leucine (twisted amide)-Proline Mimics. *J. Org. Chem.* 55, 4984-4986 (1990). |
| | AJ | Andrus, M.B. and Schreiber, S.L. Structure-Based Design of an Acyclic Ligand That Bridges FKBP12 and Calcineurin. *J. Am. Chem. Soc.* 115, 10420-10421 (1993). |
| | AK | Ben-Levy, R. et al. A oncogenic point mutation confers High Affinity Ligand Binding to the neu Receptor. *J. Biol. Chem.* 267, 17304-17313 (1992). |
| | AL | Bergsma, D.J. et al. The Cyclophilin Multigene Family of Peptidyl-Prolyl Isomerases. *J. Biol. Chem.* 266, 23204-23214 (1991). |
| | AM | Bernard, O. et al. High-affinity Interleukin-2 Binding by an Oncogenic Hybrid Interleukin-2 Epidermal Growth Factor Receptor Molecule. *PNAS* 84, 2125-2129 (1987). |
| | AN | Bierer, B.E. et al. The Effect of the Immunosuppressant FK506 on Alternate Pathways of T Cell Activation. *Eur. J. Immunol.* 21, 439-445 (1991). |
| | AO | Bierer, B.E. et al. Mechanisms of Immunosuppression by FK506: Preservation of T Cell Transmembrane Signal Transduction. *Transplantation* 49, 1168-1202 (1990). |

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|---|---|---|
| TMC | AP | Bierer, B.E. et al. Probing Immunosuppressant Action with a Nonnatural Immunosuppressive Ligand. *Science* 250, 556-559 (26 Oct. 1990). |
| | AQ | Bierer, B.E. et al. Two Distinct Signal Transmission Pathways in T Lymphocytes are Inhibited by Complexes Formed Between an Immunophilin and Either FK506 or Rapamycin. *PNAS* 87, 9231-9235 (Dec. 1990). |
| | AR | Bonnerot, C. et al. Role of associated γ-chain in Tyrosine Kinase Activation via Murine FcRIII. *EMBO J.* 11, 2747-2757 (1992). |
| | AS | Bram, R.J. et al. Identification of the Immunophilins Capable of Mediating Inhibition of Signal Transduction by Cyclosporin A and FK506: Roles of Calcineurin Binding and Cellular Location. *Mol. Cell. Biol.* 13, 4760-4769 (Aug. 1993). |
| | AT | Byrn, R.A. et al. Biological Properties of a CD4 Immunoadhesin. *Nature* 344, 667-670 (12 April 1990). |
| | AU | Cantley, L.C. et al. Oncogenes and signal transduction. *Cell* 64, 281-302 (25 Jan. 1991). |
| | AV | Chan, A.C. et al. The ζ Chain is associated with a Tyrosine Kinase and upon T-Cell Antigen Receptor Stimulation Associates with ZAP-70, a 70-kDa Tyrosine Phosphoprotein. *PNAS* 88, 9166-9170 (Oct. 1991). |
| | AW | Chung, J. et al. Rapamycin-FKBP specifically blocks growth-dependent activation of and signaling by the 70 kd S6 protein kinases. *Cell* 69, 1227-1236 (26 June 1992). |
| | AX | Clark, M.R. et al. The B Cell Antigen Receptor Complex: Association of Ig-α and Ig-β with Distinct Cytoplasmic Effectors. *Science* 258, 123-126 (2 Oct. 1992). |
| | AY | Clipstone, N.A. et al. Calcineurin: Molecular analysis of its interaction with drug-immunophilin complexes and its role in the regulation of NF-AT. *J. Cell. Biochem. Suppl.* 0 (18B) 274, Abstract #I410 (1994). |
| | AZ | Crabtree, G. R. IL-2 receptor in the pathogenesis of human lymphoma. Abstract of NIH Grant 5R01CA039612-03 (1987). |
| | BA | Crabtree, G. R. Pathways of T lymphocyte activation. Abstract of NIH Grant 2R01CA039612-07 (1991). |
| | BB | DiLella, A.G. et al. Chromosomal Band Assignments of the Genes Encoding Human FKBP12 and FKBP13. *Biochem. Biophys. Res. Commun.* 189, 819-823 (15 Dec. 1992). |
| | BC | Donald, D.K. et al. C10 N-Acyl Modified FK-506: A Possible Hybrid Analogue of the Transition State of Petidyl-Prolyl Cis-Trans Isomerization. *Tetrahedron Letters* 31, 1375-1378 (1991). |
| | BD | Durand, D.B et al. Characterization of Antigen Receptor Response Elements within the Interleukin-2 Enhancer. *Mol. Cell. Biol.* 8, 1715-1724 (April 1988). |
| | BE | Eberle, M.K. and Nuninger, F. Synthesis of the Main Metabolite (OL-17) of Cyclosporin A. *J. Org. Chem.* 57, 2689-2691 (1992). |
| | BF | Edalji, R. et al. High-Level Expression of Recombinant Human FK-Binding Protein from a Fusion Precursor. *J. Prot. Chem.* 11, 213-223 (1992). |

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|---|---|---|
| JM | BG | Eiseman, E. and Bolen, J.B. Signal Transduction by the Cytoplasmic Domains of FcεRI-γ and TCRδJ-γ in Rat Basophilic Leukemia Cells. *J. Biol. Chem.* 267, 21027-21032 (15 Oct. 1992). |
| | BH | Emmel, E.A. et al. Cyclosporin A Specifically Inhibits Function of Nuclear Proteins Involved in T-Cell Activation. *Science* 246, 1617-1620 (22 Dec. 1989). |
| | BI | Engel, I. et al. High-Efficiency Expression and Solubization of Functional T-Cell antigen Receptor Heterodimers. *Science* 256, 1318-1321 (29 May 1992). |
| | BJ | Evans, D.A. et al. Mechanistic Study of the Rhodium(I)- and Iridium(I)- Catalyzed Hydroboration Reactions: Scope and Synthetic Applications. *J. Am. Chem. Soc.* 114, 6671-6679 (1992). |
| | BK | Fields, S. & Song, O-k.. A Novel Genetic System to Detect Protein-Protein Interactions. *Nature* 340, 245-246 (20 July 1989). |
| | BL | Fischer, G. et al. Mip protein of Legionella pneumophila exhibits peptidyl-prolyl-cis/trans isomerase (Pplase) activity. *Mol. Microbiol.* 6, 1375-1383 (1992). |
| | BM | Fisher, M.J. et al. On the Remarkable Propensity for Carbon-Carbon Bond Cleavage Reactions in the C8-C10 Region of FK-506. *J. Org. Chem.* 56, 2900-2907 (1991). |
| | BN | Flanagan, W.M. et al. Intracellular signal transmission: a novel role for the prolyl isomerases. *J. Cell. Biochem. Suppl.* 0 (16 Part A) 61, Abstract #B005 (1992). |
| | BO | Flanagan, W.M. et al. Nuclear Association of a T-Cell Transcription Factor Blocked by a Tyrosine Factor Blocked by FK-506 and Cyclosporin A. *Nature* 352, 803-807 (29 Aug. 1991). |
| | BP | Flanagan, W.M. et al. Nuclear association of a transcription factor essential for T cell activation by cyclosporin A and FK506. *J. Cell. Biochem. Suppl.* 0 (16 Part B), 237, Abstract #H514 (1992). |
| | BQ | Francavilla, A. et al. Inhibition of Liver, Kidney, and Intestine Regeneration by Rapamycin. *Transplantation* 53, 496-498 (1992). |
| | BR | Fretz, H. et al. Rapamycin and FK506 Binding Proteins (Immunophilins). *J. Am. Chem. Soc.* 113, 1409-1411 (1991). |
| | BS | Friedman, J. & Weissman, I. Two Cytoplasmic Candidates for Immunophilin Action are Revealed by Affinity for a New Cyclophilin: One in the Presence and One in the Presence and One in the Absence of CsA. *Cell* 66, 799-806 (23 Aug. 1991). |
| | BT | Fuh, G. et al. Rational design of potent antagonists to the human growth hormone receptor. *Science* 256, 1677-1680 (19 June 1992). |
| | BU | Galat, A. et al. A Rapamycin-Selective 25 kDa Immunophilin. *Biochemistry* 31, 2427-2434 (1992). |
| | BV | Ghosh, A.K. et al. N,N'-Disuccinimidyl Carbonate: A Useful Reagent for Alkoxycarbonylation of Amines. *Tetrahedron Letters* 33, 2781-2784 (1992). |
| | BW | Gottschalk, W.K. et al. The Carboxy Terminal 100 Amino Acid Portion of the Insulin Receptor is Important for Isulin Signaling to Pyruvate Dehydrogenase. *Biochem. Biophys. Res. Comm.* 189, 906-911 (15 Dec. 1992). |

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|---|---|---|
| TMC | BX | Haendler, B. et al. Complementary DNA for human T-cell cyclophilin. *EMBO J.* 6, 947-950 (1987). |
| | BY | Haendler, B. et al. Yeast cyclophilin: isolation and characterization of the protein, cDNA and gene. *Gene* 83, 39-46 (1989). |
| | BZ | Harding, M.W. et al. A Receptor for the Immunosuppressant FK506 is a cis-trans Peptidyl-Prolyl Isomerase. *Nature* 341, 758-760 (1989). |
| | CA | Herbst, R. et al. Substrate Phosphorylation Specificity of the Human c-kit Receptor Tyrosine Kinase. *J. Biol. Chem.* 266, 19908-19916 (1991). |
| | CB | Howard, F.D. et al. The CD3ζCytoplasmic Domain Mediates CD2-Induced T Cell Activation. *J. Exp. Med.* 176, 139-145 (1992). |
| | CC | Hultsch, T. et al. Immunophilin Ligands Demonstrate Common Features of Signal Transduction Leading to Exocytosis or Transcription. *PNAS* 88, 6229-6233 (July 1991). |
| | CD | Hultsch, T. et al. Inhibition of IgE Receptor-Mediated Exocytosis from Rat Basophilic Leukemia Cells by FK506 is Reversed by Rapamycin: Evidence for Common Signaling Pathways in Mast Cells and T Lymphocytes. *FASEB J.* 5, A1008 [3705] (1991). |
| | CE | Hung, D.T. & Schreiber, S.L. CDNA Cloning of a Human 25 kDa FK506 and Rapamycin Binding Protein. *Biochem. Biophys. Res. Comm.* 184, 733 (30 April 1992). |
| | CF | Ikeda, Y. et al. Structural Basis for Peptidomimicry by a Natural Product. *J. Am. Chem. Soc.* 116, 4143-4144 (1994). |
| | CG | Irving, B.A. & Weiss, A. The Cytoplasmic Domain of the T Cell Receptor ç Chain is Sufficient to Couple to Receptor-Associated Signal Transduction Pathways. *Cell* 64, 891-901 (8 March 1991). |
| | CH | Itoh, N. & Nagata, S. A Novel Protein Domain Required for Apoptosis. *J. B. C.* 268, 10932-10937 (25 May 1993). |
| | CI | Itoh, N. et al. Effect of bcl-2 on Fas Antigen Mediated Cell Death. *J. Immunol.* 151, 621-627 (1993). |
| | CJ | Jin, Y.-J. et al. Molecular cloning of a membrane-associated human FK506- and rapamycin-binding protein, FKBP-13. *PNAS* 88, 6677-6681 (Aug. 1991). |
| | CK | Jones, A.B. et al. Studies Relating to the Synthesis of the Immunosuppressive Agent FK506: Coupling of Fragments via a Stereoselective Trisubstituted Olefin Forming Reaction Sequence. *J. Org. Chem.* 54, 17-19 (1989). |
| | CL | Kao, P.N. et al. Nuclear target of cyclosporin A and FK506 action is specifically bound by a heterodimeric protein comprising molecular weights 90K and 45K. *J. Cell. Biochem. Suppl.* 0 (16 Part B), 239, Abstract #H523 (1992). |
| | CM | Kaye, R.E. et al. Effects of Cyclosporin A and FK506 on Fce Receptor type I-Initiated Increases in Cytokine mRNA in Mouse Bone Marrow-Derived Progenito Mast Cells: Resistance to FK506 is Associated with a Deficiency in FKBP12. *PNAS* 89, 8542-8546 ( Sept. 1992). |
| | CN | Ke, H. et al. Crystal Structures of Cyclophilin A Complexed with Cyclosporin A and N-methyl-4-[(E)-2-Butenyl]-4,4-Dimthyltheonine Cyclosporin A. Structure 2, 33-44 (15 Jan. 1994). |

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|---|---|---|
| TM | CO | Kinet, J.-P. Antibody-Cell Interactions: Fc Receptors. *Cell* 57, 351-354 (5 May 1989). |
| | CP | Krishnamurthy, S. Lithium Tris[(3-ethyl-3-pentyl)oxy]aluminum Hydride. A New Remarkably Chemoselective Reagent for the Reduction of Aldehydes in the Presence of Ketones. *J. Org. Chem.* 46, 4628-4629 (1981). |
| | CQ | Kruskal, B.A. et al. Phagocytic Chimeric Receptors Require Both Transmembrane and Cytoplasmic Domains from the Mannos Receptor. *J. Exp. Med.* 176, 1673-1680 (1992). |
| | CR | Lammers et al. Differential Signaling Potential in Insulin- and IGF-1-receptor Cytoplasmic Domains. *EMBO J.* 8, 1369-1375 (1989). |
| | CS | Lane et al. Complete Amino Acid Sequence of the FK506 and Rapamycin Binding Protein, FKBP, Isolated from Calf Thymus. *J. Prot. Chem.* 10, 151-160 (1991). |
| | CT | Lanier et al. Co-association of CD3ς with a Receptor (CD16) for IgG Fc on Human Natural Killer Cells. *Nature* 342, 803-805 (1989). |
| | CU | Larson & Nuss. Cyclophilin-dependent stimulation of transcriptionby cyclosporin A. *PNAS* 90, 148 (1993). |
| | CV | Lee, A. W.-m. and Neinhuis, A.W. Functional Dissection of Structural Domains in the Receptor for Colony Stimulating Factor-1. *J. Biol. Chem.* 267, 16472-16483 (1992). |
| | CW | Lee, J. et al. HER2 Cytoplasmic Domain Generates Normal Mitogenic and Transforming Signals in a Chimeric Receptor. *EMBO J.* 8, 167-173 (1989). |
| | CX | Lehtola et al. A chimeric EGFR/neu receptor in functional analysis of theneu oncoprotein. *Acta Oncologia* 31, 147-150 (1992). |
| | CY | Lehtola et al. Receptor Downregulation and DNA Synthesis are Modulated by EGF and TPA in Cells Expressing an EGF/neu Chimera. *Growth Factors* 1, 323-334 (1989). |
| | CZ | Lehvaslaiho et al. A Chimeric EGF-R-neu Proto-Oncogene Allows EGF to Regulate neu Tyrosine Kinase and Cell Transformation. *EMBO J.* 8, 159-166 (1989). |
| | DA | Lehvaslaiho, H. et al. Regulation by EGF is maintained in an overexpressed chimeric EDG/neu receptor tyrosine kinase. *J. Cell. Biochem.* 42, 123-133 (1990). |
| | DB | Letourner & Klausner. Activation of T Cells by a Tyrosine Kinase Activation Domain in the Cytoplasmic Tail of CD3 ∈. *Science* 258, 123-126 (1992). |
| | DC | Lev et al. Receptor functions and ligand-dependent transforming potential of a chimeric kit proto-oncogene. *Mol. Cell. Biol.* 10, 6064-6068 (1990). |
| | DD | Lev et al. A Specific Combination of Substrates is Involved in Signal Transduction by the kit-Encoded Receptor. *EMBO J.* 10, 647-654 (1991). |
| | DE | Liu. FK506 and cyclosporin, molecular probes for studying intracellular signal transduction. *Immunology Today* 14, 290 (1993). |

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| TMC | DF | Liu et al. Calcineurin is a Common Target of Cyclophilin-Cyclosporin A and FKBP-FK506 Complexes. *Cell* 66, 807 (1991). |
| | DG | Liu et al. Cloning, expression, and purification of human cyclophilin in Escherichia coli and assessment of the catalytic role of cysteines by site-directed mutagenesis. *PNAS* 87, 2304 (1990). |
| | DH | Liu et al. Inhibition of T Cell Signaling by Immunophilin-Ligand Complexes Correlates With Loss of Calcineurin Phosphatase Activity. *Biochemistry* 31, 3896-3901 (1992). |
| | DI | Maki, N. et al. Complementary DNA encoding the human T-cell FK506-binding protein, a peptidylprolyl cis-trans isomerase distinct from cyclophilin. *PNAS* 87, 5440-5443 (July 1990). |
| | DJ | Mares et al. A Chimera between Platelet-Derived Growth Factor B-receptor and Fibroblast Growth Factor Receptor-1 Stimulates Pancreatic β-DNA Synthesis in the Presence of PDGF-BB. *Growth Factors* 6, 93-101 (1992). |
| | DK | Margolis et al. All Autophosphorylation Sites of Epidermal Growth Factor (EGF) Receptor and HER2/neu are Located in their Carboxyl-Terminals Tails. *J. Biol. Chem.* 264, 10667-10671 (1989). |
| | DL | Mattila et al. The Actions of Cyclosporin A and FK506 Suggest A Novel Step in the Activation of T Lymphocytes. *EMBO J.* 9, 4425-4433 (1990). |
| | DM | Meyer et al. Synthetic Investigations of Rapamycin. 1. Synthesis of a C10-C21 Fragment. *J. Org. Chem.* 57, 5058-5060 (1992). |
| | DN | Michnick et al. Solution Structure of FKBP, a Rotamese Enzyme and Receptor for FK506 and Rapamycin. *Science* 252, 836-839 (1991). |
| | DO | Moe et al. Transmembrane Signaling by a Chimera of the Escherichia coli Aspartate Receptor and the Human Insulin Receptor. *PNAS* 86, 5683-5687 (1989). |
| | DP | Nakatsuka et al. Total Syntheses of FK506 and an FKBP Probe Reagent, (C8, C9-13C2)-FK506. *J. Am. Chem. Soc.* 112, 5583 (1990). |
| | DQ | Nussbaumer et al. C9-Imino and C10-Amino Derivatives of Ascomycin (21-Ethyl-FK506). *Tetrahedron Letters* 33, 3845-3846 (1992). |
| | DR | Orloff et al. Family of Disulphide-Linked Dimers Containing the ς and η Chains of the T-Cell Receptor and the y Chain of the Fc Receptors. *Nature* 347, 189-191 (1990). |
| | DS | Palmiter et al. Transgenic Mice. *Cell* 41, 343-345 (1985). |
| | DT | Patchett et al. Analogs of Cyclosporin A Modified at the D-ALA[8] Position. *J. Antibiotics* 45, 94-102 (1992). |
| | DU | Peles et al. Regulated Coupling of the Neu Receptor to Phosphatidylinositol. *J. Biol. Chem.* 267, 12266-12274 (1992). |
| ↓ | DV | Price et al. Human cyclophilin B: A second cyclophilin gene encodes a peptidyl-prolyl isomerase with a signal sequence. *PNAS* 88, 1903 (1991). |

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| TW | DW | Ptashne et al. Activators and Targets. *Nature* 346, 329-331 (1990). |
| | DX | Ragan et al. Studies of the Immunosuppressive Agent FK506: Synthesis of an Advanced Intermediate. *J. Org. Chem.* 54, 4267-4268 (1989). |
| | DY | Reins et al. Anti-epidermal growth factor receptor monoclonal antibodies affecting signal transduction. *J. Cell. Biol.* 51, 236-248 (1993). |
| | DZ | Riedel et al. Cytoplasmic Domains Determine Signal Specificity, Cellular Routing Characteristics and Influence Ligand Binding of Epidermal Growth Factor and Insulin Receptors. *EMBO J.* 8, 2943-2954 (1989). |
| | EA | Romeo et al. Cellular immunity to HIV activated by CD4 fused to T cell or Fc receptor polypeptides. *Cell* 64, 1037-1046 (1991). |
| | EB | Romo et al. Synthetic Investigations of Rapamycin. 2. Synthesis of a C22-C42 Fragment. *J. Org. Chem.* 57, 5060-5063 (1992). |
| | EC | Romo et al. Total Synthesis of Rapamycin Using an Evans-Tischenko Fragment Coupling. *J. Am. Chem. Soc.* 115, 7906-7907 (1993). |
| | ED | Rosen et al. Activation of an Inactive Immunophilin by Mutagenesis. *J. Am. Chem. Soc.* 115, 821-822 (1993). |
| | EE | Rosen et al. Inhibition of FKBP Rotamase Activity by Immunosuppressant FK506: A Twisted Amide Surrogate. *Science* 248, 863 (1990). |
| | EF | Rosen et al. Natural Products as Probes of Cellular Function: Studies of Immunophilins. *Angew. Chemie. Int. Ed. Eng.* 31, 384-400 (1992). |
| | EG | Rosen et al. Proton and Nitrogen Sequential Assignments and Secondary Structure Determination of the Human FK506 and Rapamycin Binding Protein. *Biochemistry* 30, 4774-4789 (1991). |
| | EH | Rosen et al. Study of Receptor-Ligand Interactions Through Receptor Labeling and Isotope-Edited NMR. *J. Org. Chem.* 56, 6262 (1991). |
| | EI | Roussel et al. Antibody-Induced Mitogenicity Mediated by a Chimeric CD2-c-fms Receptor. *Mol. Cell. Biol.* 10, 2407-2412 (1990). |
| | EJ | Rudert et al. Apoptosis in L929 cells expressing a CD40/Fas chimeric receptor: Dissociation of stimulatory from inhibory death signaling functions. *Biochem. Biophys. Res. Comm.* 204, 1102 (1994). |
| | EK | Sampson & Gotschlich. Neisseria meningitidis encodes an FK506-inhibitable rotamase. *PNAS* 89, 1164 (1992). |
| | EL | Schreiber, S. L. Analysis of cyclosporin-receptor interaction: Synthesis of semi-peptide and non-peptide analogs of cyclosporin A. Abstract of NIH Grant P01GM406600001 (1989). |
| | EM | Schreiber, S. L. Chemistry and Biology of the Immunophilins and their Immunosuppressive Ligands. *Science* 251, 283 (1991). |

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| TM | EN | Schreiber, S. L. Immunophilin-Sensitive Phosphatase Action in Cell Signaling Pathways. *Cell* 70, 365-369-8 (1992). |
| | EO | Schreiber et al. Immunophilin-Ligand Complexes as Probes of Intracellular Signaling Pathways. *Transplantation Proceedings* 23, 2839 (1991). |
| | EP | Schreiber, S. L. Synthesis of materials with physiological properties. Abstract of NIH Grant R37GM38627, (1992). |
| | EQ | Schreiber, S. L. Synthesis of materials with physiological properties. Abstract of NIH Grant R37GM38627, (1987). |
| | ER | Schreiber et al. Is There a Scaffolding Domain within the Structure of the Immunosuppressive Agent Cyclosporin A (CsA)? Studies of the Cyclophilin Binding Domain of CsA. *Tetrahedron Lett.* 29, 6577 (1988). |
| | ES | Schreiber et al. The Mechanism of Action of Cyclosporin A and FK506. *Immunology Today* 13, 136-142 (1992). |
| | ET | Schreiber et al. Molecular Recognition of Immunophilins and Immunophilin-Ligand Complexes. *Tetrahedron* 48, 2545-2558 (1992). |
| | EU | Schreiber et al. Studies Relating to the Synthesis of the Immunosuppressive Agent FK506: Application of the Two Directional Chain Synthesis Strategy to the Pyranose Moiety. *J. Org. Chem.* 54, 9, 15 (1989). |
| | EV | Schultz et al. Atomic Structure of the Immunophilin FKBP13-FK506 Complex: Insights Into the Composite Binding Surface for Calcineurin. *J. Am. Chem. Soc.* 116, 3129-3130 (1994). |
| | EW | Seedorf et al. Analysis of platelet-derived growth factor receptor domain function using a novel chimeric receptor approach. *J. Biol. Chem.* 266, 12424-12431 (1991). |
| | EX | Seedorf et al. Differential effects of carboxy-terminal sequence deletions on platelet-derived growth factor receptor signaling activities and interactions with cellular substrates. *Mol. Cell. Biol.* 12, 4347-4356 (1992). |
| | EY | Selvakumaran et al. Myeloblastic leukemia cells conditionally blocked Myc-estrogen receptor chimeric transgenes for terminal differentiation coupled to growth arrest and apoptosis. *Blood* 81, 2257 (1993). |
| | EZ | Serafini et al. Selection and characterization of mutants in a signal transduction/transmission pathway. *J. Cell. Biochem. Suppl.* 0 (6 Part A), 89, Abstract #B234 (1992). |
| | FA | Shaw et al. Identification of a Putative Regulator of Early T Cell Activation Genes. *Science* 241, 202 (1988). |
| | FB | Sistonen et al. Activation of the neu Tyrosine Kinase Induces the fos/jun Transcription Factor Complex, the Glucose Transporter, and Ornithine Decarbodylase. *J. Cell. Biol.* 109, 1911-1919 (1989). |
| | FC | Smith et al. FKBP54, a Novel FK506 Binding Protein in Avian Progesterone Receptor Complexes and HeLa Extracts. *J. Biol. Chem.* 268, 24270-24273 (1993). |
| | FD | Somers et al. Synthesis and Analysis of 506BD, a High Affinity Ligand to the Immunophilin, FKBP. *J. Am. Chem. Soc.* 113, 8045-8056 (1991). |

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| | FE | Standaert et al. Molecular cloning and overexpression of the human FK506-binding protein FKBP. *Nature* 346, 671 (1990). |
| | FF | Tai et al. Association of a 59-Kilodalton Immunophilin with the Glucocorticoid Receptor Complex. *Science* 256, 1315-1318 (1992). |
| | FG | Tai et al. P59 (FK506 Binding Protein 59) Interaction with Heat Shock Proteins is Highly Conserved and May Involve Proteins Other Than Steroid Receptors. *Biochemistry* 32, 8842-8847 (1993). |
| | FH | Tanida et al. Yeast Cyclophilin-related gene encodes a nonessential second peptidyl-prolyl cis-trans isomerase with the secretory pathway. *Transplantation Proceedings* 23, 2856 (1991). |
| | FI | Traber et al. Cyclosporins – New Analogues by Precursor Directed Biosynthesis. *J. Antibiotics* 42, 591-597 (1989). |
| | FJ | Ullman et al. Site of action of cyclosporin and FK506 in the pathways of communication between the T-lymphocyte antigen receptor and the early activation genes. *Transplant. Proceed.* 23, 2845 (1991). |
| | FK | Van Duyne et al. Atomic Structure of FKBP-FK506, an Immunophilin-Immunosuppressant Complex. *Science* 252, 839-842 (1991). |
| | FL | Van Duyne et al. Atomic Structure of the Rapamycin human immunophilin FKBP-12 complex. *J. Am. Chem. Soc.* 113, 7433 (1991). |
| | FM | Van Duyne et al. Atomic Structures of the Human Immunophilin FKBP12 Complexes with FK506- and Rapamycin. *J. Mol. Biol.* 229, 105-124 (1993). |
| | FN | VanRheenen et al. An Improved Catalytic OsO4 Oxidation of the Olefins to Cis-1,2 Glycols Using Tertiary Amine Oxides as the Oxidant. *Tetrahedron Letters* 23, 1973-1976 (1976). |
| | FO | Venkitaraman et al. Interleukin 7 receptor functions by recruiting the tyrosine kinase $p59^{fym}$ through a segment of its cytoplasmic tail. *PNAS* 89, 12083-12087 (1992). |
| | FP | Verweij et al. Cell Type Specificity and Activation Requirements for NFAT-1 (Nuclear Factor of Activated T-Cells) Transcriptional Activity Determined by a New Method Using Transgenic Mice to Assay Transcriptional Activity of an Individual Nuclear Factor. *J. Biol. Chem.* 265, 15788 (1990). |
| | FQ | Walsh et al. Cyclosporin A, the Cyclophilin Class of Peptidylprolyl Isomerases, and Blockade of T Cell Signal Transduction. *J. Biol. Chem.* 267, 13115 (1992). |
| | FR | Wandless et al. FK506 and Rapamycin Binding to FKBP: Common Elements Involved in Immunophilin-Ligand Complexation. *J. Am. Chem. Soc.* 113, 2339-2341 (1991). |
| | FS | Watanabe-Fukunga et al. Lymphoproliferation Disorder in Mice Explained by Defects in Fas Antigen that Mediates Apoptosis. *Nature* 356, 314-317 (1992). |
| | FT | Weissman et al. Molecular Cloning and Chromosomal Localization of the Human T-Cell Receptor ζ Chain: Distinction from the Molecular CD3 Complex. *PNAS* 85, 9709-9713 (1988). |
| | FU | Wennstrom et al. The platelet-derived growth factor beta-receptor kinase insert confers specific signaling properties to a chimeric fibroblast growth factor receptor. *J. Biol. Chem.* 267, 13749-13756 (1992). |

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|---|---|---|
| | FV | Wittbrodt et al. The Xmrk Receptor Tyrosine Kinase is Activated in Xiphophorous Maligant Melanoma. *EMBO J.* 11, 4239-4246 (1992). |
| | FW | Yang et al. A Composite FKBP12-FK506 Surface That Contacts Calcineurin. *J. Am. Chem. Soc.* 115, 819-820 (1993). |
| | FX | Yarden et al. Growth factor receptor tyrosine kinases. *Ann. Rev. Biochem.* 57, 443-478 (1988). |
| | FY | Zelle et al. Systematic Degradation of Zincophorin: A Stereoselective Synthesis of the C17-C25 Fragment. *J. Org. Chem.* 51, 5032-5036 (1986). |
| | FZ | Zhang et al. The insulin receptor-related receptor. *J. Biol. Chem.* 267, 18320-18328 (1992). |
| | GA | Zydowsky et al. Active site mutants of human cyclophilin A separate peptidyl-prolyl isomerase activity from cyclosporin A binding and calcineurin inhibition. *Prot. Sci.* 1, 1092 (1992). |
| | GB | Zydowsky et al. Overexpressoin, purification, and characterization of yeast cyclophilins A and B. *Protein Sci.* 1, 961 (1992). |

| EXAMINER | DATE CONSIDERED |
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| Jerry A McKelvey | 5/31/04 |

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